## SEQUENCE LISTING

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## IAP20 Rec'd PCT/PTO 14 FEB 2006

<110> Aasly, Jan O Wszolek, Zbigniew K Farrer, Matthew J <120> Polynucleotide <130> U1913 <150> NO20045612 <151> 2004-12-23 <160> 2 <170> PatentIn version 3.1 <210> 1 <211> 2527 <212> PRT <213> Homo sapiens <220> <221> MISC\_FEATURE <222> (2019)..(2019) <223> X may be any amino acid except glycine. <300> <308> Genbank / AY792511 <309> 2004-11-15 <313> (1)..(2527) <400> 1 Met Ala Ser Gly Ser Cys Gln Gly Cys Glu Glu Asp Glu Glu Thr Leu Lys Lys Leu Ile Val Arg Leu Asn Asn Val Gln Glu Gly Lys Gln Ile Glu Thr Leu Val Gln Ile Leu Glu Asp Leu Leu Val Phe Thr Tyr Ser 40 Glu His Ala Ser Lys Leu Phe Gln Gly Lys Asn Ile His Val Pro Leu 50 55 Leu Ile Val Leu Asp Ser Tyr Met Arg Val Ala Ser Val Gln Gln Val Gly Trp Ser Leu Leu Cys Lys Leu Ile Glu Val Cys Pro Gly Thr Met 85 Gln Ser Leu Met Gly Pro Gln Asp Val Gly Asn Asp Trp Glu Val Leu 100 105

Gly Val His Gln Leu Ile Leu Lys Met Leu Thr Val His Asn Ala Ser 115 120 125

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Val Asn Leu Ser Val Ile Gly Leu Lys Thr Leu Asp Leu Leu Leu Thr 130 135 140

Ser Gly Lys Ile Thr Leu Leu Ile Leu Asp Glu Glu Ser Asp Ile Phe 145 150 155 160

Met Leu Ile Phe Asp Ala Met His Ser Phe Pro Ala Asn Asp Glu Val 165 170 175

Gln Lys Leu Gly Cys Lys Ala Leu His Val Leu Phe Glu Arg Val Ser 180 185 190

Glu Glu Gln Leu Thr Glu Phe Val Glu Asn Lys Asp Tyr Met Ile Leu 195 200 205

Leu Ser Ala Ser Thr Asn Phe Lys Asp Glu Glu Glu Ile Val Leu His 210 215 220

Val Leu His Cys Leu His Ser Leu Ala Ile Pro Cys Asn Asn Val Glu 225 230 235 240

Val Leu Met Ser Gly Asn Val Arg Cys Tyr Asn Ile Val Val Glu Ala 245 250 255

Met Lys Ala Phe Pro Met Ser Glu Arg Ile Gln Glu Val Ser Cys Cys 260 265 270

Leu Leu His Arg Leu Thr Leu Gly Asn Phe Phe Asn Ile Leu Val Leu 275 280 285

Asn Glu Val His Glu Phe Val Val Lys Ala Val Gln Gln Tyr Pro Glu 290 295 300

Asn Ala Ala Leu Gln Ile Ser Ala Leu Ser Cys Leu Ala Leu Leu Thr 305 310 315 320

Glu Thr Ile Phe Leu Asn Gln Asp Leu Glu Glu Lys Asn Glu Asn Gln 325 330 335

Glu Asn Asp Asp Glu Gly Glu Glu Asp Lys Leu Phe Trp Leu Glu Ala 340 345 350

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Leu Glu Met Leu Ser Leu Glu Gly Ala Met Asp Ser Val Leu His Thr

Cys Tyr Lys Ala Leu Thr Trp His Arg Lys Asn Lys His Val Gln Glu

Leu Gln Met Tyr Pro Asp Asp Gln Glu Ile Gln Cys Leu Gly Leu Ser 595 600 605

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His Leu Leu Ala Lys Ile Leu Val Ser Ser Leu Tyr Arg Phe Lys Asp 625 630 635 640

Val Ala Glu Ile Gln Thr Lys Gly Phe Gln Thr Ile Leu Ala Ile Leu 645 650 655

Lys Leu Ser Ala Ser Phe Ser Lys Leu Leu Val His His Ser Phe Asp 660 665 670

Leu Val Ile Phe His Gln Met Ser Ser Asn Ile Met Glu Gln Lys Asp 675 680 685

Gln Gln Phe Leu Asn Leu Cys Cys Lys Cys Phe Ala Lys Val Ala Met 690 695 700

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Gln Ile Ile Ser Leu Leu Leu Arg Arg Leu Ala Leu Asp Val Ala Asn 785 790 795 800

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Trp Leu Gly Pro Leu Phe Pro Asp Lys Thr Ser Asn Leu Arg Lys Gln 820 825 830

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835 840 845

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- Ser Ser Met Asp Ser Val Phe Ala Gln Ser Asp Asp Leu Asp Ser Glu 885 890 895
- Gly Ser Glu Gly Ser Phe Leu Val Lys Lys Lys Ser Asn Ser Ile Ser 900 905 910
- Val Gly Glu Phe Tyr Arg Asp Ala Val Leu Gln Arg Cys Ser Pro Asn 915 920 925
- Leu Gln Arg His Ser Asn Ser Leu Gly Pro Ile Phe Asp His Glu Asp 930 935 940
- Leu Leu Lys Arg Lys Arg Lys Ile Leu Ser Ser Asp Asp Ser Leu Arg 945 950 955 960
- Ser Ser Lys Leu Gln Ser His Met Arg His Ser Asp Ser Ile Ser Ser 965 970 975
- Leu Ala Ser Glu Arg Glu Tyr Ile Thr Ser Leu Asp Leu Ser Ala Asn 980 985 990
- Glu Leu Arg Asp Ile Asp Ala Leu Ser Gln Lys Cys Cys Ile Ser Val 995 1000 1005
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- Thr Ser Phe Pro Gln Gln Leu Cys Glu Thr Leu Lys Ser Leu Thr 1025 1030 1035
- His Leu Asp Leu His Ser Asn Lys Phe Thr Ser Phe Pro Ser Tyr 1040 1050
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Lys His Ile Gly Cys Lys Ala Lys Asp Ile Ile Arg Phe Leu Gln 1310 1320

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- Gln Arg Leu Lys Lys Ala Val Pro Tyr Asn Arg Met Lys Leu Met 1325 1330 1335
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- Leu Met Lys Thr Lys Lys Ser Asp Leu Gly Met Gln Ser Ala Thr 1355 1360 1365
- Val Gly Ile Asp Val Lys Asp Trp Pro Ile Gln Ile Arg Asp Lys 1370 1375 1380
- Arg Lys Arg Asp Leu Val Leu Asn Val Trp Asp Phe Ala Gly Arg 1385 1390 1395
- Glu Glu Phe Tyr Ser Thr His Pro His Phe Met Thr Gln Arg Ala 1400 1405 1410
- Leu Tyr Leu Ala Val Tyr Asp Leu Ser Lys Gly Gln Ala Glu Val
- Asp Ala Met Lys Pro Trp Leu Phe Asn Ile Lys Ala Arg Ala Ser 1430 1440
- Ser Ser Pro Val Ile Leu Val Gly Thr His Leu Asp Val Ser Asp 1445 1450 1455
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- Ile Ile Asn Glu Ser Leu Asn Phe Lys Ile Arg Asp Gln Leu Val 1505 1510 1515
- Val Gly Gln Leu Ile Pro Asp Cys Tyr Val Glu Leu Glu Lys Ile 1520 1530

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- Asp Arg Lys Arg Leu Leu Gln Leu Val Arg Glu Asn Gln Leu Gln 1550 1560
- Leu Asp Glu Asn Glu Leu Pro His Ala Val His Phe Leu Asn Glu 1565 1570 1575
- Ser Gly Val Leu Leu His Phe Gln Asp Pro Ala Leu Gln Leu Ser 1580 1585 1590
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- Glu Lys Phe Gln Ile Ala Leu Pro Ile Gly Glu Glu Tyr Leu Leu 1655 1660 1665
- Val Pro Ser Ser Leu Ser Asp His Arg Pro Val Ile Glu Leu Pro 1670 1680
- His Cys Glu Asn Ser Glu Ile Ile Ile Arg Leu Tyr Glu Met Pro 1685 1690 1695
- Tyr Phe Pro Met Gly Phe Trp Ser Arg Leu Ile Asn Arg Leu Leu 1700 . 1705 1710
- Glu Ile Ser Pro Tyr Met Leu Ser Gly Arg Glu Arg Ala Leu Arg 1715 1720 1725
- Pro Asn Arg Met Tyr Trp Arg Gln Gly Ile Tyr Leu Asn Trp Ser 1730 1740
- Pro Glu Ala Tyr Cys Leu Val Gly Ser Glu Val Leu Asp Asn His 1745 1750 1755
- Pro Glu Ser Phe Leu Lys Ile Thr Val Pro Ser Cys Arg Lys Gly

1760 1765 1770

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|-----|-------------|-----|-----|-----|-----|-------------|-----|-----------|-----|-----|-------------|-----|-----|-----|
| Glu | Glu<br>1790 | Trp | Phe | Pro | Gly | Leu<br>1795 | Leu | Glu       | Ile | Asp | Ile<br>1800 | Суз | Gly | Glu |
| Gly | Glu<br>1805 |     | Leu | Leu |     | Lys<br>1810 |     | Aļa       | Leu | Tyr | Ser<br>1815 | Phe | Asn | Asp |
| Gly | Glu<br>1820 | Glu | His | Gln | _   | Ile<br>1825 | Leu | Leu       | Asp | Asp | Leu<br>1830 | Met | Lys | Lys |
| Ala | Glu<br>1835 | Glu | Gly | Asp | Leu | Leu<br>1840 | Val | Asn       | Pro | Asp | Gln<br>1845 | Pro | Arg | Leu |
| Thr | Ile<br>1850 | Pro | Ile | Ser | Gln | Ile<br>1855 | Ala | Pro       | Asp | Leu | Ile<br>1860 | Leu | Ala | Asp |
| Leu | Pro<br>1865 | _   | Asn | Ile |     | Leu<br>1870 | Asn | Asn       | Asp | Glu | Leu<br>1875 | Glu | Phe | Glu |
| Gln | Ala<br>1880 | Pro | Glu | Phe | Leu | Leu<br>1885 | Gly | Asp       | Gly | Ser | Phe<br>1890 | Gly | Ser | Val |
| Tyr | Arg<br>1895 |     | Ala | Tyr |     | Gly<br>1900 | Glu | Glu       | Val | Ala | Val<br>1905 | Lys | Ile | Phe |
| Asn | Lys<br>1910 | His | Thr | Ser | Leu | Arg<br>1915 | Leu | Leu       | Arg | Gln | Glu<br>1920 | Leu | Val | Val |
| Leu | Cys<br>1925 | His | Leu | His | His | Pro<br>1930 |     | Leu<br>,. |     | Ser | Leu<br>1935 | Leu | Ala | Ala |
| Gly | Ile<br>1940 | Arg | Pro | Arg | Met | Leu<br>1945 | Val | Met       | Glu | Leu | Ala<br>1950 | Ser | Lys | Gly |
| Ser | Leu<br>1955 | Asp | Arg | Leu | Leu | Gln<br>1960 | Gln | Asp       | Lys | Ala | Ser<br>1965 | Leu | Thr | Arg |
| Thr | Leu<br>1970 | Gln | His | Arg | Ile | Ala<br>1975 | Leu | His       | Val | Ala | Asp<br>1980 | Gly | Leu | Arg |
| Tyr | Leu<br>1985 | His | Ser | Ala | Met | Ile<br>1990 | Ile | Tyr       | Arg | Asp | Leu<br>1995 | Lys | Pro | His |

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- Lys Ile Ala Asp Tyr Xaa Ile Ala Gln Tyr Cys Cys Arg Met Gly 2015 2020 2025
- Ile Lys Thr Ser Glu Gly Thr Pro Gly Phe Arg Ala Pro Glu Val 2030 2035 . 2040
- Ala Arg Gly Asn Val Ile Tyr Asn Gln Gln Ala Asp Val Tyr Ser 2045 . 2050 2055
- Phe Gly Leu Leu Tyr Asp Ile Leu Thr Thr Gly Gly Arg Ile 2060 2065 2070
- Val Glu Gly Leu Lys Phe Pro Asn Glu Phe Asp Glu Leu Glu Ile 2075 2080 2085
- Gln Gly Lys Leu Pro Asp Pro Val Lys Glu Tyr Gly Cys Ala Pro 2090 2095 2100
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- Pro Gln Glu Arg Pro Thr Ser Ala Gln Val Phe Asp Ile Leu Asn 2120 2125 2130
- Ser Ala Glu Leu Val Cys Leu Thr Arg Arg Ile Leu Leu Pro Lys 2135 2140 2145
- Asn Val Ile Val Glu Cys Met Val Ala Thr His His Asn Ser Arg 2150 2155 2160
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- Val Glu Lys Glu Ser Trp Ile Val Ser Gly Thr Gln Ser Gly Thr 2210 2220

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- Glu Lys Met Thr Asp Ser Val Thr Cys Leu Tyr Cys Asn Ser Phe 2240 2245 2250
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- Asp Gly Lys Leu Ala Ile Phe Glu Asp Lys Thr Val Lys Leu Lys 2270 2280
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- Val Met Trp Gly Gly Cys Gly Thr Lys Ile Phe Ser Phe Ser Asn 2315 2320 2325
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- Leu Gln Lys Asn Thr Ala Leu Trp Ile Gly Thr Gly Gly His 2420 2425 2430
- Ile Leu Leu Leu Asp Leu Ser Thr Arg Arg Leu Ile Arg Val Ile 2435 2440 2445

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